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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/696,052	10/25/2000	Gerard Chauvel	TIF-29339	3869
23494 75	590 02/24/2004		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			CONNOLLY, MARK A	
P O BOX 6554 DALLAS, TX			ART UNIT	PAPER NUMBER
,,	*		2115	X
			DATE MAILED: 02/24/2004	O

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)	0
	09/696,052	CHAUVEL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mark Connolly	2115	
The MAILING DATE of this communication a Period for Reply	ppears on the cov r sheet v	vith the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of the will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	tion.
Status			
 1) ⊠ Responsive to communication(s) filed on 17 2a) ⊠ This action is FINAL. 2b) □ Th 3) □ Since this application is in condition for allow 	nis action is non-final.	tters, prosecution as to the merits	is
closed in accordance with the practice under	· ·	•	
Disposition of Claims			
4) ☐ Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdreds 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a content of the drawing and an according a content of the specific and according to the specific and the	ccepted or b) objected to ne drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	` '
Priority under 35 U.S.C. § 119			
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document of: 2. ☐ Certified copies of the priority document of: 3. ☐ Copies of the certified copies of the priority document of the certified copies of the certified co	nts have been received. nts have been received in a light in the ligh	Application No n received in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

Art Unit: 2115

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Sunakawa et al¹ [Sunakawa] EP No 0683451A2.
- 3. Referring to claim 1, Sunakawa teaches the processor comprising a plurality of processing modules, comprising the steps of:
 - a. calculating consumption information for a plurality of scenarios for executing a plurality of tasks, the consumption information of each scenario based on probabilistic values for activities associated with the tasks [Abstract].
 - b. executing the tasks according to a selected scenario on said plurality of processing modules responsive to said consumption information [Abstract].
- 4. Referring to claim 2, Sunakawa teaches monitoring the actual activity occurring and modifying the execution of tasks based on the monitoring step [Abstract].
- 5. Referring to claim 3, Sunakawa teaches providing maximum performance within thermal constraints [page 3 lines 45-50 and page 15 line 56 page 16 line 9].

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¹ As cited by the applicant

Art Unit: 2115

- 6. Referring to claim 4, Sunakawa teaches executing the tasks on a plurality of processing modules responsive to said consumption information in order to execute the tasks using the lowest possible energy consumption [Abstract and page 4 lines 28-30].
- 7. Referring to claim 5, Sunakawa teaches:
 - a. generating a task allocation scenario [page 9 lines 7-28 and figs 7, 8A and 8B].
 - b. estimating the activities for task allocation scenario [Abstract, page 9 lines 7-28 and figs 7, 8A and 8B]. The usage of devices in each task are interpreted as activities.
 - c. computing the consumption associated with said activities [Abstract, page 9 lines 7-28 and figs 7, 8A and 8B].
- 8. Referring to claim 6, Sunakawa teaches receiving a task list describing the tasks to be executed and a task model describing the tasks [page 9 lines 7-28 and figs 7, 8A and 8B].
- 9. Referring to claim 7, Sunakawa teaches including initial estimates for each task [page 9 lines 7-28 and figs 7, 8A and 8B].
- 10. Referring to claim 8, Sunakawa teaches priority constraints for each task [Abstract and page 9 lines 29-32 and figs. 7 and 8C].
- 11. Referring to claim 9, Sunakawa teaches including information regarding possible degradations associated with one or more of the tasks in the task list [page 3 lines 34-41]. Priority is interpreted as information regarding possible degradations.
- 12. Referring to claim 10, Sunakawa teaches computing the energy consumption associated with the activities [page 4 lines 39-42]. Average power and energy are interpreted to be the same since both describe power over a given time period.

Art Unit: 2115

13. Referring to claim 11, Sunakawa teaches computing the power consumption associated with the activities [Abstract].

- 14. Claims 12-22 are the apparatus claims which follow the methods of claims 1-12 and are therefore rejected on the same basis as set forth hereinabove.
- 15. Claim 23 is drawn to the methods of claims 1, 5-6 and 9 and is therefore rejected on the same basis as set forth hereinabove.
- 16. Claim 24 is drawn to the methods of claims 12, 16-17 and 20 and is therefore rejected on the same basis as set forth hereinabove.

Conclusion

17. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Connolly whose telephone number is (703) 305-7849. The examiner can normally be reached on M-F 8AM-5PM (except every first Friday).



Art Unit: 2115

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C Lee can be reached on (703) 305-9717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Connolly Examiner Art Unit 2115 Page 5

mc

February 20, 2004

JEFREY GAFFIN

TENDED: OGY CENTER 2100